

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1533.2640001/MAC/M-GAPPLICATION NO.
10/067,974APPLICANT
Li et al.FILING DATE
February 8, 2002GROUP
1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA1	6,040,160	03/21/2000	Kojima et al.			05/29/1996
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
KK	AL1	WO 01/49854 A2	07/12/2001	WIPO			Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

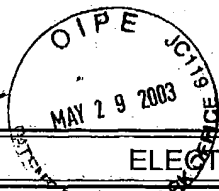
KK	AR	1	Cremer, J., et al., "Control of the Lysine Biosynthesis Sequence in <i>Corynebacterium glutamicum</i> as Analyzed by Overexpression of the Individual Corresponding Genes," Appl. Environ. Microbiol. 57:1746-1752, American Society for Microbiology (1991)
KK	AS	1	Malumbres, M., and Martin, J.F., "Molecular control mechanisms of lysine and threonine biosynthesis in amino acid-producing corynebacteria: Redirecting carbon flow," FEMS Lett. 143:103-114, Elsevier Science B.V. (1996)
	AT	1	<i>Duplicate</i> Marcel, T., et al., "Nucleotide sequence and organization of the upstream region of the <i>Corynebacterium glutamicum</i> lysA gene," Mol. Microbiol. 4:1819-1830, Blackwell Scientific Publications (1990)

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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version
Stylesheet Version v18.0

Title of Invention

Polynucleotide constructs for increased lysine production

Application Number: 10/067974

Confirmation Number: 3799

First Named Applicant: Lhing-Yew Li

Attorney Docket Number: 1533.2640001

Search string:

(4514502 or 4559308 or 4710471 or 4778762 or 4822738 or 4954441 or 5158891 or 5236831 or 5243039 or 5380657 or 5547864 or 5591577 or 5597727 or 5633154 or 5643790 or 5661012 or 5693781 or 5700661 or 5726299 or 5766925 or 5804414 or 5876983 or 5929221 or 5965391 or 5989875 or 6004773 or 6027920 or 6090597 or 6200785).pn.



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US Patent Documents

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init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
KK	1	4514502	1985-04-30	Miwa et al.			
	2	4559308	1985-12-17	Nutter et al.			
	3	4710471	1987-12-01	Katsumata et al.			
	4	4778762	1988-10-18	Miwa et al.			
	5	4822738	1989-04-18	Miwa et al.			
	6	4954441	1990-09-04	Katsumata et al.			
	7	5158891	1992-10-27	Takeda et al.			
	8	5236831	1993-08-17	Katsumata et al.			
	9	5243039	1993-09-07	Schendel et al.			
	10	5380657	1995-01-10	Schaefer et al.			
	11	5547864	1996-08-20	Kawasaki et al.			
	12	5591577	1997-01-07	Tsuchiya et al.			
	13	5597727	1997-01-28	Kohama et al.			
	14	5633154	1997-05-27	Schaefer et al.			
	15	5643790	1997-07-01	Morinaga et al.			
	16	5661012	1997-08-26	Sano et al.			
	17	5693781	1997-12-02	Zupancic et al.			
	18	5700661	1997-12-23	Katsumata et al.			
	19	5726299	1998-03-10	Zupancic et al.			
	20	5766925	1998-06-16	Sugimoto et al.			
	21	5804414	1998-09-08	Moriya et al.			
V	22	5876983	1999-03-02	Sugimoto et al.			

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<input checked="" type="checkbox"/>	23	5929221	1999-07-27	Kimura et al.	
<input type="checkbox"/>	24	5965391	1999-10-12	Reinscheid et al.	
<input type="checkbox"/>	25	5989875	1999-11-23	Kojima et al.	
<input type="checkbox"/>	26	6004773	1999-12-21	Araki et al.	
<input type="checkbox"/>	27	6027920	2000-02-22	Joliff et al.	
<input type="checkbox"/>	28	6090597	2000-07-18	Hirano et al.	
<input checked="" type="checkbox"/>	29	6200785	2001-03-13	Kreutzer et al.	B1

Signature

Examiner Name	Date
<i>Kelly De</i>	1/29/04



Electronic Information Disclosure Statement

Polynucleotide constructs for increased lysine production

Application:



10/067974

Confirmation: 3799

Applicant(s): Lhing-Yew Li

Docket

Number: 1533.2640001

Group Art

Unit:

Examiner:

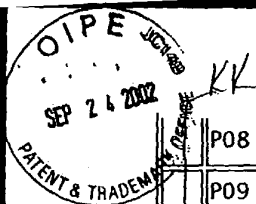
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US Patent Documents

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init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
<input checked="" type="checkbox"/>	P01	4861722	1989-08-29		Sano et al.	435	252.32
<input type="checkbox"/>	P02	6037154	2000-03-14		Suga et al.	435	116
<input type="checkbox"/>	P03	5426050	1995-06-20		Morinaga et al.	435	252.32
<input type="checkbox"/>	P04	4411997	1983-10-25		Shimazaki et al.	435	115
<input type="checkbox"/>	P05	4346170	1982-08-24		Sano et al.	435	115
<input type="checkbox"/>	P06	6040160	2000-03-21		Kojima et al.	435	115
<input checked="" type="checkbox"/>	P07	5426052	1995-06-20		Flickinger et al.	536	23.2



<input type="checkbox"/>	P08	4980285	1990-12-25	<input type="checkbox"/>	Sano et al.	435	108
<input type="checkbox"/>	P09	6090597	2000-07-18	<input type="checkbox"/>	Hirano et al.	435	115
<input type="checkbox"/>	P10	5688671	1997-11-18	<input type="checkbox"/>	Sugimoto et al.	435	115
<input type="checkbox"/>	P11	4601983	1986-07-22	<input type="checkbox"/>	Nakamori et al.	435	115
<input type="checkbox"/>	P12	5804414	1998-09-08	<input type="checkbox"/>	Moriya et al.	435	69.1
<input type="checkbox"/>	P13	6221636	2001-04-24	<input type="checkbox"/>	Hayakawa et al.	435	115
<input type="checkbox"/>	P14	4757009	1988-07-12	<input type="checkbox"/>	Sano et al.	435	106
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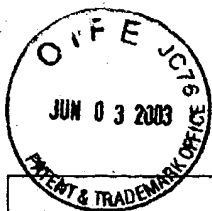
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	APPLICANT Li et al.	
	FILING DATE February 8, 2002	GROUP 1645

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
KK	AN1	WO 96/34961	11/07/1996	WIPO			Yes No
KK	AO1	EP 0 754 756	01/22/1997	Europe	—		Yes No
KK	AP1	EP 0 854 189	07/22/1998	Europe	—		Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
KK	AS	15	Archer, J.A.C., and Sinskey, A.J., "The DNA sequence and minimal replicon of the <i>Corynebacterium glutamicum</i> plasmid pSR1: evidence of a common ancestry with plasmids from <i>C. diphtheriae</i> ," <i>J. Gen. Microbiol.</i> 139:1753-1759, The Society for General Microbiology (1993)
KK	AT	15	Ben-Samoun, K., et al., "Positively regulated expression of the <i>Escherichia coli</i> <i>araBAD</i> promoter in <i>Corynebacterium glutamicum</i> ," <i>FEMS Microbiol. Lett.</i> 174:125-130, Elsevier Science B.V. (1999)

EXAMINER <i>Kathleen</i>	DATE CONSIDERED 1/24/04
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
KK	AL2	EP 1 108 790	06/20/2001	Europe			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KK	AR	16	Jöbling, M.G., and Holmes, R.K., "Construction of vectors with the p15a replicon, kanamycin resistance, inducible <i>lacZα</i> and pUC18 or pUC19 multiple cloning site," Nucl. Acids Res. 18:5315-5316, IRE Press (1990)
	AS	16	Kleemann A., et al., "Amino Acids," in Ullmann's Encyclopedia of Industrial Chemistry, Fifth, Completely Revised Edition, Volume A 2: Amines, Aliphatic to Antibiotics, Gerhartz, W., ed., VCH Verlagsgesellschaft mbH, Weinheim, Germany, pp.57-97 (1985)
	AT	16	Lonsdale, D.M., et al., "pFC1 to pFC7: A Novel Family of Combinatorial Cloning Vectors," Plant Mol. Biol. Report. 13:343-345, Transaction Periodicals Consortium, Rutgers University (1995)

EXAMINER <i>Kathleen Le</i>	DATE CONSIDERED 1/29/04
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	AL						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KR	AR	17	Marcel, T., et al., "Nucleotide sequence and organization of the upstream region of the <i>Corynebacterium glutamicum</i> lysA gene," Mol. Microbiol. 4:1819-1830, Blackwell Scientific Publications (1990)
	AS	17	Nakayama, K., et al., "Microbial Production of Essential Amino Acids with <i>Corynebacterium glutamicum</i> Mutants," in Nutritional Improvement of Food and Feed Proteins, Freidman, M., ed., Plenum Press, New York, NY, pp. 649-661 (1977)
	AT	17	Oguiza, J.A., et al., "A Gene Encoding Arginyl-tRNA Synthetase Is Located in the Upstream Region of the lysA Gene in <i>Brevibacterium lactofermentum</i> : Regulation of argS-lysA Cluster Expression by Arginine," J. Bacteriol. 175:7356-7362, American Society for Microbiology (1993)

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	AO						Yes No
	AP						Yes No

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KK	AR	18	Pátek, M., et al., "Promoters from <i>Corynebacterium glutamicum</i> : cloning, molecular analysis and search for a consensus motif," <i>Microbiology</i> 142:1297-1309, The Society for General Microbiology , (1996)
KK	AS	18	Pátek, M., et al., "Identification and transcriptional analysis of the <i>dapB</i> - <i>ORF2</i> - <i>dapA</i> - <i>ORF4</i> operon of the <i>Corynebacterium glutamicum</i> , encoding two enzymes involved in L-lysine synthesis," <i>Biotechnol. Lett.</i> 19:1113-1117, Chapman Hall (1997)
KK	AT	18	Pharmingen "pPMG-LIC Bacterial Cloning Vector," in 1999 <i>Research Products Catalog</i> , Pharmingen, San Diego, CA, p. 839 (1999)

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	AM						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KK	AR	19	Record, Jr., M.T., et al., "Escherichia coli RNA Polymerase (Eo ⁷⁰), Promoters, and the Kinetics of the Steps of Transcription Initiation," in <i>Escherichia coli and Salmonella, Cellular and Molecular Biology, Second Edition, Volume I</i> , Neidhardt, F.C., et al., eds., ASM Press, Washington, DC, pp.792-821 (1996)
KK	AS	19	Reinscheid, D.J., et al., "Cloning, sequence analysis, expression and inactivation of the <i>Corynebacterium glutamicum</i> pta-ack operon encoding phosphotransacetylase and acetate kinase," <i>Microbiology</i> 145:503-513, The Society for General Microbiology (1999)
KK	AT	19	Schäfer, A., et al., "Small mobilizable multi-purpose cloning vectors derived from the <i>Escherichia coli</i> plasmids pK18 and pK19: selection of defined deletions in the chromosome of <i>Corynebacterium glutamicum</i> ," <i>Gene</i> 145:69-73, Elsevier Science B.V. (1994)

EXAMINER 	DATE CONSIDERED 1/29/04
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	AL						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

14	AR	20	Serebrijski, I., et al., "Multicopy Suppression by asd Gene and Osmotic Stress-Dependent Complementation by Heterologous proA in proA Mutants," <i>J. Bacteriol.</i> 177:7255-7260, American Society for Microbiology (1995)
	AS	20	Serwold-Davis, T.M., et al., "Transformation of <i>Corynebacterium diphtheriae</i> , <i>Corynebacterium ulcerans</i> , <i>Corynebacterium glutamicum</i> , and <i>Escherichia coli</i> with the <i>C. diphtheriae</i> plasmid pNG2," <i>Proc. Natl. Acad. Sci. USA</i> 84:4964-4968, National Academy of Sciences (1987)
V	AT	20	Van Walsem, H.J., and Thompson, M.C., "Simulated moving bed in the production of lysine," <i>J. Biotechnol.</i> 59:127-132, Elsevier Science B.V. (1997)

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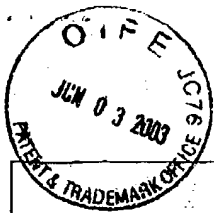
KL	AR	21	Wendisch, V.F., et al., "Regulation of acetate metabolism in <i>Corynebacterium glutamicum</i> : transcriptional control of the isocitrate lyase and malate synthase genes," Arch. Microbiol. 168:262-269, Springer-Verlag (1997)
KL	AS	21	Database EMBL Acc. No. Z21502, Pisabarro, A., et al. (August 16 1993)
KL	AT	21	Database EMBL Acc. No. AX122246, Nakagawa, S., et al. (May 11, 2001)

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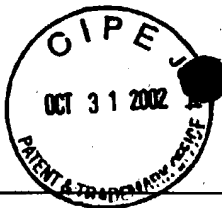
KL	AR	22	Database EMBL Acc. No. AX123535, Nakagawa, S., et al. (May 11, 2001)
KL	AS	22	Database EMBL Acc. No. AX125746, Nakagawa, S., et al. (May 10, 2001)
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FORM PTO-1449
SECOND SUPPLEMENTAL
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KK	AM1	EP 0.857 784 A2	08/12/1998	Europe			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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KK	AR	2	Anonymous, "Advances in the Biotechnology of Lysine Production," Nutr. Rev. 43:88-90, International Life Sciences Institute (1985)
	AS	2	Bannur, B.B., and Purandare, G.M., "Microbial Production of L-lysine," Hind. Antibiot. Bull. 11:191-205, Hindustan Antibiotics Ltd. (1969)
↓	AT	2	Batt, C.A., et al., "Genetic engineering of coryneform bacteria," Trends Biotechnol. 3:305-310, Elsevier Science Publishers (1985)

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1533.2640001/MAC/M-GAPPLICATION NO.
10/067,974APPLICANT
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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KK ↓	AR	3	Chatterjee, M., and Chatterjee, S.P., "Microbial Production of L-lysine: A Review," <i>Hind. Antibiot. Bull.</i> 39:20-49, Hindustan Antibiotics Ltd. (1997)
	AS	3	Correia, A., et al., "Cloning and characterization of an IS-like element present in the genome of <i>Brevibacterium lactofermentum</i> ATCC 13869," <i>Gene</i> 170:91-94, Elsevier Science. (1996)
	AT	3	Cremer, J., et al., "Regulation of Enzymes of Lysine Biosynthesis in <i>Corynebacterium glutamicum</i> ," <i>J. Gen. Microbiol.</i> 134:3221-3229, <i>Society for General Microbiology</i> (1988)

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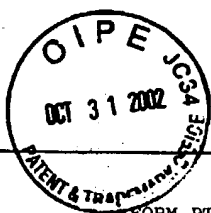
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KK	AR	4	Cremer, J., et al., "Cloning the <i>dapA</i> <i>dapB</i> cluster of the lysine-secreting bacterium <i>Corynebacterium glutamicum</i> ," <i>Mol. Gen. Genet.</i> 220:478-480, Springer-Verlag (1990)
↓	AS	4	Eikmanns, B.J., et al., "Amplification of three threonine biosynthesis genes in <i>Corynebacterium glutamicum</i> and its influence on carbon flux in different strains," <i>Appl. Microbiol. Biotechnol.</i> 34:617-622, Springer-Verlag (1991)
↓	AT	4	Eikmanns, B.J., et al., "Molecular aspects of lysine, threonine, and isoleucine biosynthesis in <i>Corynebacterium glutamicum</i> ," <i>Antonie van Leeuwenhoek</i> 64:145-163, Kluwer Academic Publishers , (1993)

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KK	AR	5	Follettie, M., and Sinskey, A.J., "Corynebacterium glutamicum: A Model for the Use of DNA Technology in Food Grade Organisms," in <i>Biotechnology and Food Safety</i> , Bills, D.D., and Kung, S.D., eds., Butterworth-Heinemann, Boston, MA, pp. 277-289 (1990)
KK	AS	5	Follettie, M.T., et al., "Gene Structure and Expression of the Corynebacterium flavum N13 ask-asd Operon," <i>J. Bacteriol.</i> 175:4096-4103, The American Society for Microbiology (1993)
KK	AT	5	Frankard, V., et al., "Molecular characterization of an Arabidopsis thaliana cDNA coding for a monofunctional aspartate kinase," <i>Plant Mol. Bio.</i> 34:233-242, Kluwer Academic Publishers (1997)

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KK	AR	6	Huang, H.T., "Microbial Production of Amino Acids," in <i>Progress in Industrial Microbiology</i> (Volume 5), Hockenull, D.J.D., ed., Gordon & Breach Science Publishers, Great Britain, pp. 57-92 (1964)
↓	AS	6	Ishino, S., et al., "Cloning and Sequencing of the <i>meso</i> -Diaminopimelate-D-dehydrogenase (<i>ddh</i>) Gene of <i>Corynebacterium glutamicum</i> ," <i>Agric. Biol. Chem.</i> 52:2903-2909, The Agricultural Chemical Society of Japan (1988)
↓	AT	6	Jetten, M.S.M., et al., "Metabolic Engineering of <i>Corynebacterium glutamicum</i> ," <i>Ann. NY Acad. Sci.</i> 721:12-29, The New York Academy of Sciences (1994)

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KL	AR	2	Jetten, M.S.M., et al., "Effect of different levels of aspartokinase on the lysine production by <i>Corynebacterium lactofermentum</i> ," Appl. Microbiol. Biotechnol. 43:76-82, Springer-Verlag (1995)
KL	AS	2	Jetten, M.S.M., and Sinskey, A.J., "Recent Advances in the Physiology and Genetics of Amino Acid-Producing Bacteria," Crit. Rev. Biotechnol. 15:73-103, CRC Press (1995)
KL	AT	2	Kalinowski, J., et al., "Aspartokinase genes <i>lysCα</i> and <i>lysCβ</i> overlap and are adjacent to the aspartate β -semialdehyde dehydrogenase gene <i>asd</i> in <i>Corynebacterium glutamicum</i> ," Mol. Gen. Genet. 224:317-324, Springer-Verlag (1990)

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KK	AR	8	Kalinowski, J., et al., "Genetic and biochemical analysis of the aspartokinase from <i>Corynebacterium glutamicum</i> ," <i>Mol. Microbiol.</i> 5:1197-1204, Blackwell-Scientific Publications (1991)
KK	AS	8	Kinoshita, S., et al., "L-Lysine Production Using Microbial Auxotroph," <i>J. Gen. Appl. Microbiol.</i> 4:128-129, The Institute of Applied Microbiology (1958)
KK	AT	8	Liebl, W., et al., "Transfer of <i>Brevibacterium divaricatum</i> DSM 20297 ^T , " <i>Brevibacterium flavum</i> " DSM 20411, " <i>Brevibacterium lactofermentum</i> " DSM 20412 and DSM 1412, and <i>Corynebacterium lilium</i> DSM 20137 ^T to <i>Corynebacterium glutamicum</i> and Their Distinction by rRNA Gene Restriction Patterns," <i>Int. J. Syst. Bacteriol.</i> 41:255-260, International Union of Microbiological Societies (1991)

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KK ↓	AR	2	Martin, J.F., et al., "Cloning Systems in Amino Acid-Producing Corynebacteria," <u>Biotechnology</u> 5:137-146, <u>Nature Publishing Co.</u> (1987)
	AS	2	Miwa, K., et al., "Construction of L-Threonine Overproducing Strains of <u>Escherichia coli</u> K-12 Using Recombinant DNA Techniques," <u>Agric. Biol. Chem.</u> 47:2329-2334, <u>The Agricultural Chemical Society of Japan</u> , (1983)
	AT	2	Miwa, K., et al., "Construction of novel shuttle vectors and a cosmid vector for the glutamic acid-producing bacteria <u>Brevibacterium lactofermentum</u> and <u>Corynebacterium glutamicum</u> ," <u>Gene</u> 39:281-286, <u>Elsevier Science Publishers</u> , (1985)

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	AP						Yes No

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FK	AR	10	Nakayama, K., et al., "Studies on Lysine Fermentation I. The Control Mechanism on Lysine Accumulation by Homoserine and Threonine," J. Gen. Appl. Microbiol. 7:145-154, The Institute of Applied Microbiology . (1961)
	AS	10	Nakayama, K., and Kinoshita, S., "Studies on Lysine Fermentation II. α , ϵ -Diaminopimelic Acid and its Decarboxylase in Lysine Producing Strain and Parent Strain," J. Gen. Appl. Microbiol. 7:155-160, The Institute of Applied Microbiology . (1961)
	AT	10	Sahn, H., et al., "Construction of L-Lysine-, L-Threonine-, or L-Isoleucine-Overproducing Strains of <i>Corynebacterium glutamicum</i> ," Ann. N Y Acad. Sci. 782:25-39, The New York Academy of Sciences . (1996)

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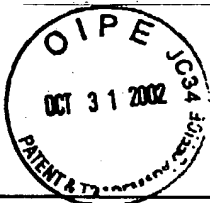
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KK	AR	11	Sandoval, H., et al., "Screening of plasmids in non-pathogenic corynebacteria," <i>FEMS Microbiol. Lett.</i> 27:93-98, Elsevier Science Publishers, (1985)
	AS	11	Schäfer, A., et al., "High-Frequency Conjugal Plasmid Transfer from Gram-Negative <i>Escherichia coli</i> to Various Gram-Positive Coryneform Bacteria," <i>J. Bacteriol.</i> 172:1663-1666, American Society for Microbiology (1990)
✓	AT	11	Schrumpf, B., et al., "A Functionally Split Pathway for Lysine Synthesis in <i>Corynebacterium glutamicum</i> ," <i>J. Bacteriol.</i> 173:4510-4516, American Society for Microbiology (1991)

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KL	AR	12	Schrumpf, B., et al., "Isolation and prominent characteristics of an L-lysine hyperproducing strain of <i>Corynebacterium glutamicum</i> ," Appl. Microbiol. Biotechnol. 37:566-571, Springer-Verlag (1992)
	AS	12	Schwarzer, A., and Pühler, A., "Manipulation of <i>Corynebacterium Glutamicum</i> by Gene Disruption and Replacement," Biotechnology 9:84-87, Nature Publishing Co. (1991)
✓	AT	12	Selli, A., et al., "Regulation of Dihydrodipicolinate Synthase and Diaminopimelate Decarboxylase Activity in <i>Bacillus Stearothermophilus</i> ," Ital. J. Biochem. 43:29-35, Il Pensiero Scientifico (1994)

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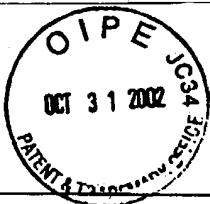
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	AS	13	Shiio, I., et al., "Isolation and Properties of α -Ketobutyrate-resistant Lysine-producing Mutants from <i>Brevibacterium flavum</i> ," <i>Biosci. Biotech. Biochem.</i> 57:51-55, Japan Society for Bioscience, Biotechnology, and Agrochemistry (1993)
↓	AT	13	Sonnen, H., et al., "Characterization of pGal, a new plasmid from <i>Corynebacterium glutamicum</i> LP-6," <i>Gene</i> 107:69-74, Elsevier Science Publishers (1991)

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KE	AR	14	Stragier, P., et al., "Regulation of Diaminopimelate Decarboxylase Synthesis in <i>Escherichia coli</i> ," <i>J. Mol. Biol.</i> 168:321-331, Academic Press (1983)
	AS	14	Yeh, P., et al., "General organization of the genes specifically involved in the diaminopimelate-lysine biosynthetic pathway of <i>Corynebacterium glutamicum</i> ," <i>Mol. Gen. Genet.</i> 212:105-111, Springer-Verlag (1988)
↓	AT	14	Yeh, P., et al., "Nucleotide sequence of the <i>lysA</i> gene of <i>Corynebacterium glutamicum</i> and possible mechanisms for modulation of its expression," <i>Mol. Gen. Genet.</i> 212:112-119, Springer-Verlag (1988)

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KL	AR	15	Yoshihama, M., et al., "Cloning Vector System for <i>Corynebacterium glutamicum</i> ," J. Bacteriol. 162:591-597, American Society for Microbiology (1985)
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